

Type N/SMA F/F Bulkhead Coaxial RF Surge Protector, 1.2GHz - 1.6GHz, 10W, IP67, 6 V Max., 175uJ, 15kA, Avalanche Diode



GPS+06NFSF

Features

- Surge current 15kA max
- Max Power 10W
- Frequency Range from 1.2 to 1.6 GHz
- N-Type Female connector surge side, SMA-Type Female connector protected side
- Waterproof IP67 rated
- VSWR Max 1.2:1
- Insertion loss Max 0.1dB

Description

RF surge protector (also known as lightning arrester or surge arrestor) GPS+06NFSF from PolyPhaser, uses a fast acting silicon avalanche suppression diode (SASD). This RF surge protector component is manufactured in a coaxial in-line design with a narrow operating frequency range. All PolyPhaser RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Description	Surge Protector Type DC Handling		Avalanche Diode DC Pass		Units
	Minimum	Typical	Maximum		
Frequency Range	1.2		1.6		GHz
Impedance		50			Ohms
VSWR			1.2:1		
Insertion Loss			0.1		dB
Operating Voltage (DC)			6		Volts
Resistance (DC)			10		mOhms
Input Power, CW			10		Watts
Surge Current IEC 61000-4-5 8/20µs waveform multiple			15		kA
Turn On Voltage		6.5			Volts
Throughput Energy for 3kA @ 8/20µs waveform			175		uJ

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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Mechanical Specifications

Size

Length	2.84 in [72.14 mm]
Width/Diameter	1.3 in [33.02 mm]
Height	1.25 in [31.75 mm]
Weight	0.3 lbs [136.08 g]

Configuration

Input Connector	N Female
Output Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	-50 to 85 deg C
Storage Range	-50 to +85 deg C

Ingress Protection (IP) Rating	IP67
Humidity	95%

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

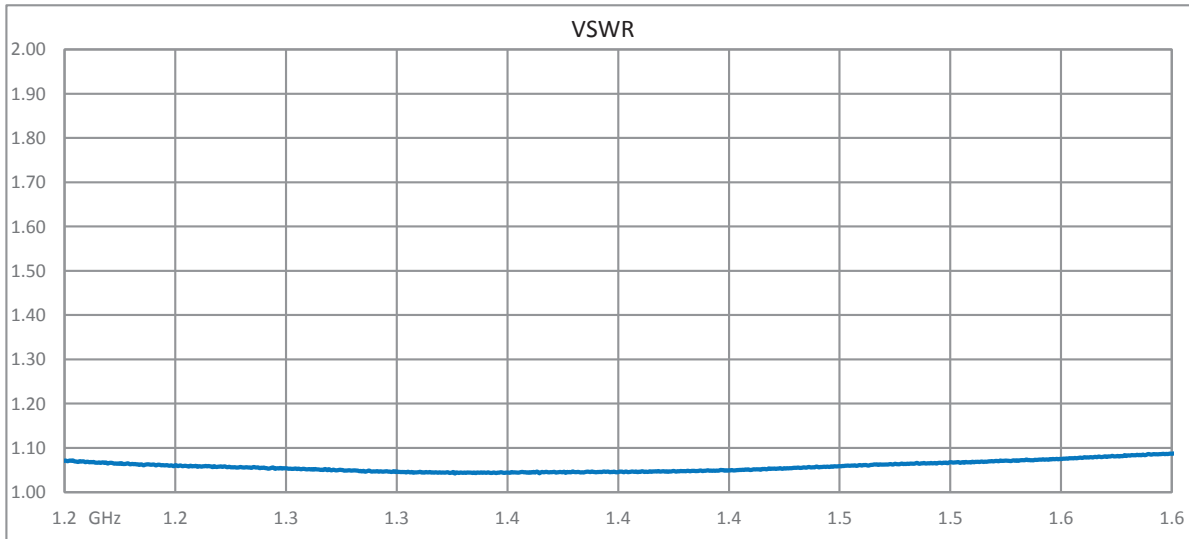
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Typical Performance Data



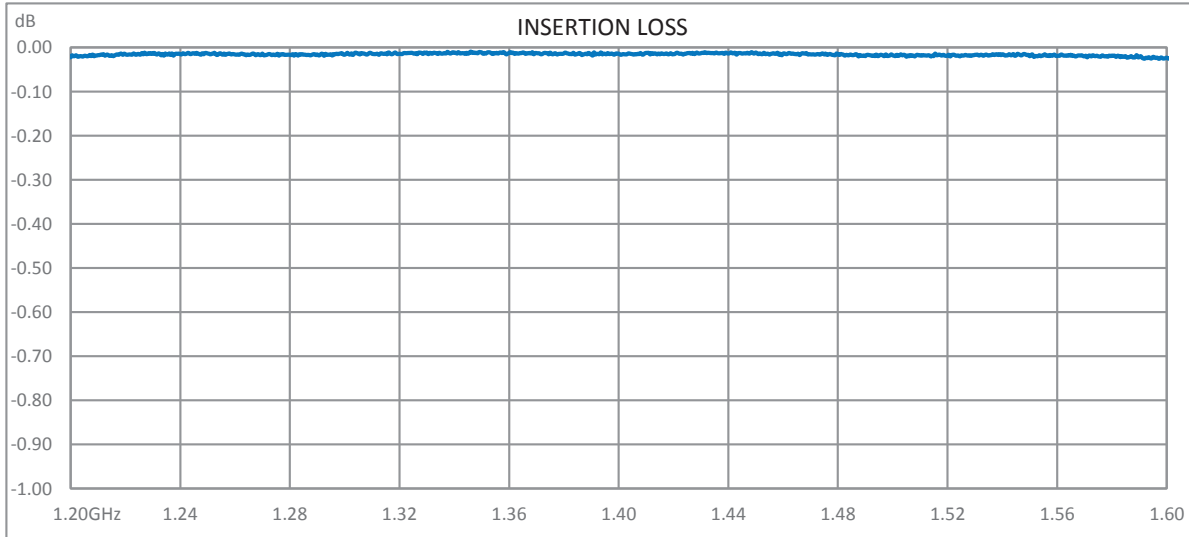
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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/type-n-sma-surge-protector-1.6ghz-avalanche-diode-gps-06nfsf>

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GPS+06NFSF CAD Drawing

QTY	DESCRIPTION
1	NUT 5/8-24 303 HEX SS
1	WASHER 5/8 410 SS
1	SILICONE O-RING 019

HARDWARE KIT INCLUDES:

UNLESS OTHERWISE SPECIFIED
 LEADING DIMENSIONS ARE INCHES
 DIMENSIONS IN [] ARE MILLIMETERS
 TOLERANCES:
 FRACTIONS: ± 1/32 .XXF± .03
 ANGLES: ± 1° .XXX± .010
 THIRD-ANGLE PROJECTION

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

PolyPhaser

TITLE: 6Vdc SASD RF SURGE ARRESTOR
 N-TYPE FEMALE/SMA FEMALE

SIZE: A CAGE: 30992 PROD CAT: RFP DRAWING NUMBER: GPS+06NFSF REV: A

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